

Notice of Allowability

Application No.

09/680,227

Examiner

Inder P. Mehra

Applicant(s)

MONTE ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication dated 8/1/06.
2. ☒ The allowed claim(s) is/are 1-42.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 1/8/01
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


JOHN PEZZLO
PRIMARY EXAMINER

DETAILED ACTION

1. This office action is in reference to response dated 8/1/06. Based on this response, claims 1-42 are pending.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 1/8/01 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

3. Claims 1-42 are allowed.

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach or suggest directly, or indirectly the following limitations in combinations with other limitations of the claims, as follows:

As recited by claim 1,

“providing code division multiplexed channel blocks from said plurality of channel blocks using a predetermined individual spreading waveform selected to indicate an origin and a destination of each of said plurality of channel blocks;
transmitting said code division multiplexed channel blocks; and,
routing [[said]] individual ones of said code division multiplexed channel blocks to their destination in accordance with the individual predetermined spreading

waveforms”.

As recited by claim 5,

“code division multiplexing each of said plurality of channel blocks using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to also to indicate an origin and a destination of each of said plurality of channel blocks; and

upconverting said plurality of code division multiplexed channel blocks such that said plurality of code division multiplexed channel blocks have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 9,

“code division multiplexing each of said plurality of signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to also to indicate an origin and a destination of each of said plurality of signals; and

upconverting said plurality of code division multiplexed signals such that said plurality of code division multiplexed signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 14,

“providing a plurality of code division multiplexed signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and

a destination of each of said plurality of signals; and

upconverting said plurality of code division multiplexed communication signals such that said plurality of code division multiplexed signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 19,

“code division multiplexing said communication signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and a destination of each of said communication signals; and

upconverting said code division multiplexed communication signals such that said communication signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 23,

“circuitry in each of said satellite and said gateway for code division multiplexing each of said plurality of channel blocks using an individual predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and a destination of each of said plurality of channel blocks; and,

circuitry in each of said satellite and said gateway for upconverting said plurality of code division multiplexed channel blocks such that said plurality of code division

multiplexed channel blocks have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 28,

“circuitry in each of said satellite and said user terminal for code division multiplexing each of said plurality of signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and a destination of each of said plurality of signals; and,

circuitry in each of said satellite and said user terminal for upconverting said plurality of code division multiplexed signals such that said plurality of code division multiplexed signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 33,

“circuitry in each of said satellite and said virtual gateway for code division multiplexing each of said plurality of signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and a destination of each of said plurality of signals; and,

circuitry in each of said satellite and said virtual gateway for upconverting said plurality of code division multiplexed signals such that said plurality of code division

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multiplexed signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 38,

“circuitry in each of said satellite and said second satellite for code division multiplexing each of said plurality of signals using a predetermined spreading waveform selected to achieve a spreading bandwidth corresponding to said predetermined bandwidth and to indicate an origin and a destination of each of each of said communication signals; and,

circuitry in each of said satellite and said second satellite for upconverting said communication signals such that said plurality of code division multiplexed communication signals have a center frequency corresponding to said predetermined center frequency”.

As recited by claim 42,

“providing code division multiplexed channel blocks using a predetermined individual spreading waveform selected to indicate an origin and a destination of each of said plurality of channel blocks, wherein said destination is a beam of a forward service link;

transmitting said code division multiplexed channel blocks; and,

routing [[said]] individual ones of said channel blocks to their destination in accordance with the predetermined spreading waveforms”.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Inder Pal Mehra 11/14/06
Inder P Mehra
Examiner
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JOHN PEZZLO
PRIMARY EXAMINER